

# Q.M.I. Version 4.5

## The 4 ½ Principles of Quality Math Instruction

*From international comparisons:*

- 1) **STANDARDS**, focus on the limited number of topics that your students need to know. Don't just cover the textbook.
- 2) **CONCEPTS**, teach your students to understand the topic, not just to memorize an algorithm. Get them to understand what they are doing, not just to mimic what you are doing.
- 3) **SUBSTANCE**, intellectually challenge your students; raise your level of questioning.
- 4) **ACCOUNTABILITY**, hold students to knowledge and performance expectations that go beyond grades and unit credit. Evaluate them as mathematicians, rather than students.

*From experience:*

- 5) **RAPPORT**, no methodology, philosophy, technique, instructional material or textbook can replace the student-teacher relationship. You must reach 'em before you teach 'em.